SUBJECT INDEX

Alkalinity

Durability of AR Glass Fiber Reinforced Plastic Bars, Fares E. Tannous and Hamid Saadatmanesh, CC Feb. 99, p12-19.

ASCE Publications

Editor's Note, Lawrence C. Bank, CC Feb. 99, p1-2.

Beam columns

Beam-Column Design Equations for Wide-Flange Pultruded Structural Shapes, Ever J. Barbero and Liliana DeVivo, CC Nov. 99, p185-191.

FRP-Confined Concrete Model, Marijn R. Spoelstra and Giorgio Monti, CC Aug. 99, p143-150.

Further Tests of Beam-to-Column Connections for Pultruded Frames: Flange-Cleated, J. T. Mottram and Y. Zheng, CC Aug. 99, p108-116.

Further Tests on Beam-to-Column Connections for Pultruded Frames: Web-Cleated, J. T. Mottram and Y. Zheng, CC Feb. 99, p3-11.

Beams

Deflection Control of Concrete Beams Pretensioned by CFRP Reinforcements, Amr A. Abdelrahman and Sami H. Rizkalla, CC May 99, p55-62.

Fatigue Performance of Concrete Beams Strengthened with CFRP Plates, Richard Andrew Barnes and Geoffrey Charles Mays, CC May 99, p63-72.

Impact Loading of Concrete Beams Externally Strengthened with CFRP Laminates, M. A. Erki, P.E. and U. Meier, P.E., CC Aug. 99, p117-124.

Transfer Lengths and Bond Strengths for Composites Bonded to Concrete, L. Bizindavyi and K. W. Neale, CC Nov. 99, p153-160.

Bond stres

Slip Modulus of FRP Sheets Bonded to Concrete, Y. J. Lee, T. E. Boothby, C. E. Bakis and A. Nanni, CC Nov. 99, p161-167.

Bonding

Bond Length of CFRP Composites Attached to Precast Concrete Walls, Vladimir A. Volnyy and Chris P. Pantelides, CC Nov. 99, p168-176.

Bonding strength

Concrete Cover Failure in FRP Reinforced Beams under Thermal Loading, Maria Antonietta Aiello, CC Feb. 99, 046-52.

Effect of High Temperature on Bond Strength of FRP Rebars, Amnon Katz, Neta Berman and Lawrence C. Bank, CC May 99, p73-81.

Performance of Hollow Glass Fiber-Reinforced Polymer Rebars, Damian I. Kachlakev and James R. Lundy, CC May 99, p87-91.

Transfer Lengths and Bond Strengths for Composites Bonded to Concrete, L. Bizindavyi and K. W. Neale, CC Nov. 99, p153-160.

Bridge construction

The Clear Creek Hybrid Composite I-Girder Pedestrian Bridge, P. J. Szak, B. N. Robson, I. E. Harik and B. Brailsford, CC May 99, p101-104.

Bridges

Importance of Documenting FRP Composite Data, John Scalzi, Walter Podolny, Eric Munley and Benjamin Tang, CC Aug. 99, p107.

Bridges, concrete

Bridge Pier Retrofit Using Fiber-Reinforced Plastic Composites, Ioan Gergely, Chris P. Pantelides, Ralph J. Nuismer and Lawrence D. Reaveley, CC Nov. 98, p165-174.

Bridges, girder

The Clear Creek Hybrid Composite I-Girder Pedestrian Bridge, P. J. Szak, B. N. Robson, I. E. Harik and B. Brailsford, CC May 99, p101-104.

Bridges, piers

Bridge Pier Retrofit Using Fiber-Reinforced Plastic Composites, Ioan Gergely, Chris P. Pantelides, Ralph J. Nuismer and Lawrence D. Reaveley, CC Nov. 98, p165-174.

Buildings

Importance of Documenting FRP Composite Data, John Scalzi, Walter Podolny, Eric Munley and Benjamin Tang, CC Aug. 99, p107.

Carbon

Bond Length of CFRP Composites Attached to Precast Concrete Walls, Vladimir A. Volnyy and Chris P. Pantelides, CC Nov. 99, p168-176.

Bridge Pier Retrofit Using Fiber-Reinforced Plastic Composites, Ioan Gergely, Chris P. Pantelides, Ralph J. Nuismer and Lawrence D. Reaveley, CC Nov. 98, p165-174.

The Clear Creek Hybrid Composite I-Girder Pedestrian Bridge, P. J. Szak, B. N. Robson, I. E. Harik and B. Brailsford, CC May 99, p101-104.

Deflection Control of Concrete Beams Pretensioned by CFRP Reinforcements, Amr A. Abdelrahman and Sami H. Rizkalla, CC May 99, p55-62.

Fatigue Performance of Concrete Beams Strengthened with CFRP Plates, Richard Andrew Barnes and Geoffrey Charles Mays, CC May 99, p63-72.

Impact Loading of Concrete Beams Externally Strengthened with CFRP Laminates, M. A. Erki, P.E. and U. Meier, P.E., CC Aug. 99, p117-124.

Tensile Durability of Cement-Based FRP Composite Wrapped Specimens, Houssam A. Toutanji and Tahar El-Korchi, CC Feb. 99, p38-45.

Composite beams

Impact Loading of Concrete Beams Externally Strengthened with CFRP Laminates, M. A. Erki, P.E. and U. Meier, P.E., CC Aug. 99, p117-124.

Composite materials

Behavior of Retrofitted URM Walls under Simulated Earthquake Loading, M. R. Ehsani, H. Saadatmanesh and J. I. Velazquez-Dimas, CC Aug. 99, p134-142.

Bridge Pier Retrofit Using Fiber-Reinforced Plastic Composites, Ioan Gergely, Chris P. Pantelides, Ralph J. Nuismer and Lawrence D. Reaveley, CC Nov. 98, p165-174.

Editor's Note, Lawrence C. Bank, CC Feb. 99, p1-2.

Failure of Web-Flange Junction in Postbuckled Pultruded I-beams, Lawrence C. Bank and Jianshen Yin, CC Nov. 99, p177-184.

FRP-Confined Concrete Model, Marijn R. Spoelstra and Giorgio Monti, CC Aug. 99, p143-150.

Importance of Documenting FRP Composite Data, John Scalzi, Walter Podolny, Eric Munley and Benjamin Tang, CC Aug. 99, p107.

Introduction to Composite Materials Design by Ever J. Barbero, Pizhong Qiao and Julio F. Davalos, CC Aug. 99, p151-152.

Tensile Durability of Cement-Based FRP Composite Wrapped Specimens, Houssam A. Toutanji and Tahar El-Korchi, CC Feb. 99, p38-45.

Thermal Compatibility of Concrete and Composite Reinforcements, T. Russell Gentry and Mohamed Husain, CC May 99, p82-86.

Composite structures

The Clear Creek Hybrid Composite I-Girder Pedestrian Bridge, P. J. Szak, B. N. Robson, I. E. Harik and B. Brailsford, CC May 99, p101-104.

Feasibility Study of Prototype GFRP-Reinforced Wood Railroad Crosstie, Julio F. Davalos, Michael G. Zipfel and Pizhong Qiao, CC May 99, p92-99.

Concrete

FRP-Confined Concrete Model, Marijn R. Spoelstra and Giorgio Monti, CC Aug. 99, p143-150.

Impact Loading of Concrete Beams Externally Strengthened with CFRP Laminates, M. A. Erki, P.E. and U. Meier, P.E., CC Aug. 99, p117-124.

Transfer Lengths and Bond Strengths for Composites Bonded to Concrete, L. Bizindavyi and K. W. Neale, CC Nov. 99, p153-160.

Concrete, precast

Bond Length of CFRP Composites Attached to Precast Concrete Walls, Vladimir A. Volnyy and Chris P. Pantelides, CC Nov. 99, p168-176.

Concrete, prestressed

Deflection Control of Concrete Beams Pretensioned by CFRP Reinforcements, Ann A. Abdelrahman and Sami H. Rizkalla, CC May 99, p55-62.

Concrete, reinforced

Concrete Cover Failure in FRP Reinforced Beams under Thermal Loading, Maria Antonietta Aiello, CC Feb. 99, p46-52. Durability of AR Glass Fiber Reinforced Plastic Bars, Fares E. Tannous and Hamid Saadatmanesh, CC Feb. 99, p12-19.

Fatigue Performance of Concrete Beams Strengthened with CFRP Plates, Richard Andrew Barnes and Geoffrey Charles Mays, CC May 99, p63-72.

Performance of Hollow Glass Fiber-Reinforced Polymer Rebars, Damian I. Kachlakev and James R. Lundy, CC May 99, p87-91.

Slip Modulus of FRP Sheets Bonded to Concrete, Y. J. Lee, T. E. Boothby, C. E. Bakis and A. Nanni, CC Nov. 99, p161-167.

Thermal Compatibility of Concrete and Composite Reinforcements. T. Russell Gentry and Mohamed Husain, CC May 99, p82-86.

Concrete structures

Concrete state of Cement-Based FRP Composite Wrapped Specimens, Houssam A. Toutanji and Tahar El-Korchi, CC Feb. 99, p38-45.

Confinement

Bridge Pier Retrofit Using Fiber-Reinforced Plastic Composites, Ioan Gergely, Chris P. Pantelides, Ralph J. Nuismer and Lawrence D. Reaveley, CC Nov. 98, p165-174.

FRP-Confined Concrete Model, Marijn R. Spoelstra and Giorgio Monti, CC Aug. 99, p143-150.

Connections

Experimental Comparisons of Connections for GFRP Pultruded Frames, S. J. Smith, I. D. Parsons and K. D. Hjelmstad, CC Feb. 99, p20-26.

Further Tests of Beam-to-Column Connections for Pultruded Frames: Flange-Cleated, J. T. Mottram and Y. Zheng, CC Aug. 99, p108-116.

Further Tests on Beam-to-Column Connections for Pultruded Frames: Web-Cleated, J. T. Mottram and Y. Zheng, CC Feb. 99, p3-11.

Cooling system

Quality Assurance of GFRP Pipes for Seawater Cooling of Power Plants, O. Ishai and J. M. Lifshitz, CC Feb. 99, p27-37.

Corrosion resistance

Quality Assurance of GFRP Pipes for Seawater Cooling of Power Plants, O. Ishai and J. M. Lifshitz, CC Feb. 99, p27-37.

Deflection

Deflection Control of Concrete Beams Pretensioned by CFRP Reinforcements, Amr A. Abdelrahman and Sami H. Rizkalla, CC May 99, p55-62.

Design

Beam-Column Design Equations for Wide-Flange Pultruded Structural Shapes, Ever J. Barbero and Liliana DeVivo, CC Nov. 99, p185-191.

Introduction to Composite Materials Design by Ever J. Barbero, Pizhong Qiao and Julio F. Davalos, CC Aug. 99, p151-152.

Documentation

Importance of Documenting FRP Composite Data, John Scalzi, Walter Podolny, Eric Munley and Benjamin Tang, CC Aug. 99, p107.

Durability

Durability of AR Glass Fiber Reinforced Plastic Bars, Fares E. Tannous and Hamid Saadatmanesh, CC Feb. 99, p12-19.

Dynamic analysis

The Clear Creek Hybrid Composite J-Girder Pedestrian Bridge, P. J. Szak, B. N. Robson, I. E. Harik and B. Brailsford, CC May 99, p101-104.

Earthquake loads

Behavior of Retrofitted URM Walls under Simulated Earthquake Loading, M. R. Ehsani, H. Saadatmanesh and J. I. Velazquez-Dimas, CC Aug. 99, p134-142.

Effective length

Bond Length of CFRP Composites Attached to Precast Concrete Walls, Vladimir A. Volnyy and Chris P. Pantelides, CC Nov. 99, p168-176.

Environmental effects

Tensile Durability of Cement-Based FRP Composite Wrapped Specimens, Houssam A. Toutanji and Tahar El-Korchi, CC Feb. 99, p38-45.

SUBJECT INDEX

Alkalinity

Durability of AR Glass Fiber Reinforced Plastic Bars, Fares E. Tannous and Hamid Saadatmanesh, CC Feb. 99, p12-19.

ASCE Publications

Editor's Note, Lawrence C. Bank, CC Feb. 99, p1-2.

Beam columns

Beam-Column Design Equations for Wide-Flange Pultruded Structural Shapes, Ever J. Barbero and Liliana DeVivo, CC Nov. 99, p185-191.

FRP-Confined Concrete Model, Marijn R. Spoelstra and Giorgio Monti, CC Aug. 99, p143-150.

Further Tests of Beam-to-Column Connections for Pultruded Frames: Flange-Cleated, J. T. Mottram and Y. Zheng, CC Aug. 99, p108-116.

Further Tests on Beam-to-Column Connections for Pultruded Frames: Web-Cleated, J. T. Mottram and Y. Zheng, CC Feb. 99, p3-11.

Beams

Deflection Control of Concrete Beams Pretensioned by CFRP Reinforcements, Amr A. Abdelrahman and Sami H. Rizkalla, CC May 99, p55-62.

Fatigue Performance of Concrete Beams Strengthened with CFRP Plates, Richard Andrew Barnes and Geoffrey Charles Mays, CC May 99, p63-72.

Impact Loading of Concrete Beams Externally Strengthened with CFRP Laminates, M. A. Erki, P.E. and U. Meier, P.E., CC Aug. 99, p117-124.

Transfer Lengths and Bond Strengths for Composites Bonded to Concrete, L. Bizindavyi and K. W. Neale, CC Nov. 99, p153-160.

Bond stres

Slip Modulus of FRP Sheets Bonded to Concrete, Y. J. Lee, T. E. Boothby, C. E. Bakis and A. Nanni, CC Nov. 99, p161-167.

Bonding

Bond Length of CFRP Composites Attached to Precast Concrete Walls, Vladimir A. Volnyy and Chris P. Pantelides, CC Nov. 99, p168-176.

Bonding strength

Concrete Cover Failure in FRP Reinforced Beams under Thermal Loading, Maria Antonietta Aiello, CC Feb. 99, 046-52.

Effect of High Temperature on Bond Strength of FRP Rebars, Amnon Katz, Neta Berman and Lawrence C. Bank, CC May 99, p73-81.

Performance of Hollow Glass Fiber-Reinforced Polymer Rebars, Damian I. Kachlakev and James R. Lundy, CC May 99, p87-91.

Transfer Lengths and Bond Strengths for Composites Bonded to Concrete, L. Bizindavyi and K. W. Neale, CC Nov. 99, p153-160.

Bridge construction

The Clear Creek Hybrid Composite I-Girder Pedestrian Bridge, P. J. Szak, B. N. Robson, I. E. Harik and B. Brailsford, CC May 99, p101-104.

Bridges

Importance of Documenting FRP Composite Data, John Scalzi, Walter Podolny, Eric Munley and Benjamin Tang, CC Aug. 99, p107.

Bridges, concrete

Bridge Pier Retrofit Using Fiber-Reinforced Plastic Composites, Ioan Gergely, Chris P. Pantelides, Ralph J. Nuismer and Lawrence D. Reaveley, CC Nov. 98, p165-174.

Bridges, girder

The Clear Creek Hybrid Composite I-Girder Pedestrian Bridge, P. J. Szak, B. N. Robson, I. E. Harik and B. Brailsford, CC May 99, p101-104.

Bridges, piers

Bridge Pier Retrofit Using Fiber-Reinforced Plastic Composites, Ioan Gergely, Chris P. Pantelides, Ralph J. Nuismer and Lawrence D. Reaveley, CC Nov. 98, p165-174.

Buildings

Importance of Documenting FRP Composite Data, John Scalzi, Walter Podolny, Eric Munley and Benjamin Tang, CC Aug. 99, p107.

Carbon

Bond Length of CFRP Composites Attached to Precast Concrete Walls, Vladimir A. Volnyy and Chris P. Pantelides, CC Nov. 99, p168-176.

Bridge Pier Retrofit Using Fiber-Reinforced Plastic Composites, Ioan Gergely, Chris P. Pantelides, Ralph J. Nuismer and Lawrence D. Reaveley, CC Nov. 98, p165-174.

The Clear Creek Hybrid Composite I-Girder Pedestrian Bridge, P. J. Szak, B. N. Robson, I. E. Harik and B. Brailsford, CC May 99, p101-104.

Deflection Control of Concrete Beams Pretensioned by CFRP Reinforcements, Amr A. Abdelrahman and Sami H. Rizkalla, CC May 99, p55-62.

Fatigue Performance of Concrete Beams Strengthened with CFRP Plates, Richard Andrew Barnes and Geoffrey Charles Mays, CC May 99, p63-72.

Impact Loading of Concrete Beams Externally Strengthened with CFRP Laminates, M. A. Erki, P.E. and U. Meier, P.E., CC Aug. 99, p117-124.

Tensile Durability of Cement-Based FRP Composite Wrapped Specimens, Houssam A. Toutanji and Tahar El-Korchi, CC Feb. 99, p38-45.

Composite beams

Impact Loading of Concrete Beams Externally Strengthened with CFRP Laminates, M. A. Erki, P.E. and U. Meier, P.E., CC Aug. 99, p117-124.

Composite materials

Behavior of Retrofitted URM Walls under Simulated Earthquake Loading, M. R. Ehsani, H. Saadatmanesh and J. I. Velazquez-Dimas, CC Aug. 99, p134-142.

Bridge Pier Retrofit Using Fiber-Reinforced Plastic Composites, Ioan Gergely, Chris P. Pantelides, Ralph J. Nuismer and Lawrence D. Reaveley, CC Nov. 98, p165-174.

Editor's Note, Lawrence C. Bank, CC Feb. 99, p1-2.

Failure of Web-Flange Junction in Postbuckled Pultruded I-beams, Lawrence C. Bank and Jianshen Yin, CC Nov. 99, p177-184.

FRP-Confined Concrete Model, Marijn R. Spoelstra and Giorgio Monti, CC Aug. 99, p143-150.

Importance of Documenting FRP Composite Data, John Scalzi, Walter Podolny, Eric Munley and Benjamin Tang, CC Aug. 99, p107.

Introduction to Composite Materials Design by Ever J. Barbero, Pizhong Qiao and Julio F. Davalos, CC Aug. 99, p151-152.

Tensile Durability of Cement-Based FRP Composite Wrapped Specimens, Houssam A. Toutanji and Tahar El-Korchi, CC Feb. 99, p38-45.

Thermal Compatibility of Concrete and Composite Reinforcements, T. Russell Gentry and Mohamed Husain, CC May 99, p82-86.

Composite structures

The Clear Creek Hybrid Composite I-Girder Pedestrian Bridge, P. J. Szak, B. N. Robson, I. E. Harik and B. Brailsford, CC May 99, p101-104.

Feasibility Study of Prototype GFRP-Reinforced Wood Railroad Crosstie, Julio F. Davalos, Michael G. Zipfel and Pizhong Qiao, CC May 99, p92-99.

Concrete

FRP-Confined Concrete Model, Marijn R. Spoelstra and Giorgio Monti, CC Aug. 99, p143-150.

Impact Loading of Concrete Beams Externally Strengthened with CFRP Laminates, M. A. Erki, P.E. and U. Meier, P.E., CC Aug. 99, p117-124.

Transfer Lengths and Bond Strengths for Composites Bonded to Concrete, L. Bizindavyi and K. W. Neale, CC Nov. 99, p153-160.

Concrete, precast

Bond Length of CFRP Composites Attached to Precast Concrete Walls, Vladimir A. Volnyy and Chris P. Pantelides, CC Nov. 99, p168-176.

Concrete, prestressed

Deflection Control of Concrete Beams Pretensioned by CFRP Reinforcements, Ann A. Abdelrahman and Sami H. Rizkalla, CC May 99, p55-62.

Concrete, reinforced

Concrete Cover Failure in FRP Reinforced Beams under Thermal Loading, Maria Antonietta Aiello, CC Feb. 99, p46-52. Durability of AR Glass Fiber Reinforced Plastic Bars, Fares E. Tannous and Hamid Saadatmanesh, CC Feb. 99, p12-19.

Fatigue Performance of Concrete Beams Strengthened with CFRP Plates, Richard Andrew Barnes and Geoffrey Charles Mays, CC May 99, p63-72.

Performance of Hollow Glass Fiber-Reinforced Polymer Rebars, Damian I. Kachlakev and James R. Lundy, CC May 99, p87-91.

Slip Modulus of FRP Sheets Bonded to Concrete, Y. J. Lee, T. E. Boothby, C. E. Bakis and A. Nanni, CC Nov. 99, p161-167.

Thermal Compatibility of Concrete and Composite Reinforcements. T. Russell Gentry and Mohamed Husain, CC May 99, p82-86.

Concrete structures

Concrete state of Cement-Based FRP Composite Wrapped Specimens, Houssam A. Toutanji and Tahar El-Korchi, CC Feb. 99, p38-45.

Confinement

Bridge Pier Retrofit Using Fiber-Reinforced Plastic Composites, Ioan Gergely, Chris P. Pantelides, Ralph J. Nuismer and Lawrence D. Reaveley, CC Nov. 98, p165-174.

FRP-Confined Concrete Model, Marijn R. Spoelstra and Giorgio Monti, CC Aug. 99, p143-150.

Connections

Experimental Comparisons of Connections for GFRP Pultruded Frames, S. J. Smith, I. D. Parsons and K. D. Hjelmstad, CC Feb. 99, p20-26.

Further Tests of Beam-to-Column Connections for Pultruded Frames: Flange-Cleated, J. T. Mottram and Y. Zheng, CC Aug. 99, p108-116.

Further Tests on Beam-to-Column Connections for Pultruded Frames: Web-Cleated, J. T. Mottram and Y. Zheng, CC Feb. 99, p3-11.

Cooling system

Quality Assurance of GFRP Pipes for Seawater Cooling of Power Plants, O. Ishai and J. M. Lifshitz, CC Feb. 99, p27-37.

Corrosion resistance

Quality Assurance of GFRP Pipes for Seawater Cooling of Power Plants, O. Ishai and J. M. Lifshitz, CC Feb. 99, p27-37.

Deflection

Deflection Control of Concrete Beams Pretensioned by CFRP Reinforcements, Amr A. Abdelrahman and Sami H. Rizkalla, CC May 99, p55-62.

Design

Beam-Column Design Equations for Wide-Flange Pultruded Structural Shapes, Ever J. Barbero and Liliana DeVivo, CC Nov. 99, p185-191.

Introduction to Composite Materials Design by Ever J. Barbero, Pizhong Qiao and Julio F. Davalos, CC Aug. 99, p151-152.

Documentation

Importance of Documenting FRP Composite Data, John Scalzi, Walter Podolny, Eric Munley and Benjamin Tang, CC Aug. 99, p107.

Durability

Durability of AR Glass Fiber Reinforced Plastic Bars, Fares E. Tannous and Hamid Saadatmanesh, CC Feb. 99, p12-19.

Dynamic analysis

The Clear Creek Hybrid Composite J-Girder Pedestrian Bridge, P. J. Szak, B. N. Robson, I. E. Harik and B. Brailsford, CC May 99, p101-104.

Earthquake loads

Behavior of Retrofitted URM Walls under Simulated Earthquake Loading, M. R. Ehsani, H. Saadatmanesh and J. I. Velazquez-Dimas, CC Aug. 99, p134-142.

Effective length

Bond Length of CFRP Composites Attached to Precast Concrete Walls, Vladimir A. Volnyy and Chris P. Pantelides, CC Nov. 99, p168-176.

Environmental effects

Tensile Durability of Cement-Based FRP Composite Wrapped Specimens, Houssam A. Toutanji and Tahar El-Korchi, CC Feb. 99, p38-45.

Experimentation

Experimental Comparisons of Connections for GFRP Pultruded Frames, S. J. Smith, I. D. Parsons and K. D. Hjelmstad, CC Feb. 99, p20-26.

Failure of Web-Flange Junction in Postbuckled Pultruded I-beams, Lawrence C. Bank and Jianshen Yin, CC Nov. 99, p177-184.

Fatigue Performance of Concrete Beams Strengthened with CFRP Plates, Richard Andrew Barnes and Geoffrey Charles Mays, CC May 99, p63-72.

Fiber reinforced plastics

Bond Length of CFRP Composites Attached to Precast Concrete Walls, Vladimir Å. Volnyy and Chris P. Pan-telides, CC Nov. 99, p168-176.

Bridge Pier Retrofit Using Fiber-Reinforced Plastic Composites, Ioan Gergely, Chris P. Pantelides, Ralph J. Nuismer and Lawrence D. Reaveley, CC Nov. 98, p165-174.

The Clear Creek Hybrid Composite I-Girder Pedestrian Bridge, P. J. Szak, B. N. Robson, I. E. Harik and B. Brailsford, CC May 99, p101-104.

Concrete Cover Failure in FRP Reinforced Beams under Thermal Loading, Maria Antonietta Aiello, CC Feb. 99, p46-52.

Deflection Control of Concrete Beams Pretensioned by CFRP Reinforcements, Amr A. Abdelrahman and Sami H. Rizkalla, CC May 99, p55-62,

Durability of AR Glass Fiber Reinforced Plastic Bars, Fares E. Tannous and Hamid Saadatmanesh, CC Feb. 99, p12-19.

Effect of High Temperature on Bond Strength of FRP Rebars, Amnon Katz, Neta Berman and Lawrence C. Bank, CC May 99, p73-81.

Experimental Comparisons of Connections for GFRP Pultruded Frames, S. J. Smith, I. D. Parsons and K. D. Hjelmstad, CC Feb. 99, p20-26.

Experimental Results on Centrifugated GFRP Poles for Electric Lifelines, Carlo Castiglioni and Maura Imbim-bo, CC Aug. 99, p125-133.

Fatigue Performance of Concrete Beams Strengthened with CFRP Plates, Richard Andrew Barnes and Geoffrey Charles Mays, CC May 99, p63-72.

Railroad Crosstie, Julio F. Davalos, Michael G. Zipfel and Pizhong Qiao, CC May 99, p92-99.

FRP-Confined Concrete Model, Marijn R. Spoelstra and Giorgio Monti, CC Aug. 99, p143-150.

Impact Loading of Concrete Beams Externally Strength-ened with CFRP Laminates, M. A. Erki, P.E. and U. Meier, P.E., CC Aug. 99, p117-124.

Importance of Documenting FRP Composite Data, John Scalzi, Walter Podolny, Eric Munley and Benjamin Tang, CC Aug. 99, p107.

Performance of Hollow Glass Fiber-Reinforced Polym Rebars, Damian I. Kachlakev and James R. Lundy, CC May 99, p87-91.

Quality Assurance of GFRP Pipes for Seawater Cooling of Power Plants, O. Ishai and J. M. Lifshitz, CC Feb. 99, p27-37.

Slip Modulus of FRP Sheets Bonded to Concrete, Y. J. Lee, T. E. Boothby, C. E. Bakis and A. Nanni, CC Nov. 99, p161-167.

Tensile Durability of Cement-Based FRP Composite Wrapped Specimens, Houssam A. Toutanji and Tahar El-Korchi, CC Feb. 99, p38-45.

Thermal Compatibility of Concrete and Composite Rein-forcements, T. Russell Gentry and Mohamed Husain, CC May 99, p82-86.

Transfer Lengths and Bond Strengths for Composites Bonded to Concrete, L. Bizindavyi and K. W. Neale, CC Nov. 99, p153-160.

Failure of Web-Flange Junction in Postbuckled Pultruded I-beams, Lawrence C. Bank and Jianshen Yin, CC Nov. 99, p177-184.

Framed structures

Further Tests of Beam-to-Column Connections for Pul-truded Frames: Flange-Cleated, J. T. Mottram and Y. Zheng, CC Aug. 99, p108-116.

Further Tests on Beam-to-Column Connections for Pul-truded Frames: Web-Cleated, J. T. Mottram and Y. Zheng, CC Feb. 99, p3-11.

Experimental Comparisons of Connections for GFRP Pultruded Frames, S. J. Smith, I. D. Parsons and K. D. Hjelmstad, CC Feb. 99, p20-26.

The Clear Creek Hybrid Composite I-Girder Pedestrian Bridge, P. J. Szak, B. N. Robson, I. E. Harik and B. Brailsford, CC May 99, p101-104.

Glass fibers

Behavior of Retrofitted URM Walls under Simulated Earthquake Loading, M. R. Ehsani, H. Saadatmanesh and J. I. Velazquez-Dimas, CC Aug. 99, p134-142.

Durability of AR Glass Fiber Reinforced Plastic Bars, Fares E. Tannous and Hamid Saadatmanesh, CC Feb. 99, p12-19.

Experimental Comparisons of Connections for GFRP Pultruded Frames, S. J. Smith, I. D. Parsons and K. D. Hjelmstad, CC Feb. 99, p20-26.

Experimental Results on Centrifugated GFRP Poles for Electric Lifelines, Carlo Castiglioni and Maura Imbim-bo, CC Aug. 99, p125-133.

Feasibility Study of Prototype GFRP-Reinforced Wood Railroad Crosstie, Julio F. Davalos, Michael G. Zipfel and Pizhong Qiao, CC May 99, p92-99.

Quality Assurance of GFRP Pipes for Seawater Cooling of Power Plants, O. Ishai and J. M. Lifshitz, CC Feb.

Failure of Web-Flange Junction in Postbuckled Pultruded I-beams, Lawrence C. Bank and Jianshen Yin, CC Nov. 99, p177-184.

Impact loads

Impact Loading of Concrete Beams Externally Strength-ened with CFRP Laminates, M. A. Erki, P.E. and U. Meier, P.E., CC Aug. 99, p117-124.

Introduction to Composite Materials Design by Ever J. Barbero, Pizhong Qiao and Julio F. Davalos, CC Aug.

Slip Modulus of FRP Sheets Bonded to Concrete, Y. J. Lee, T. E. Boothby, C. E. Bakis and A. Nanni, CC Nov. 99, p161-167.

Joints, bonded

Transfer Lengths and Bond Strengths for Composites Bonded to Concrete, L. Bizindavyi and K. W. Neale, CC Nov. 99, p153-160.

Impact Loading of Concrete Beams Externally Strength-ened with CFRP Laminates, M. A. Erki, P.E. and U. Meier, P.E., CC Aug. 99, p117-124.

Transfer Lengths and Bond Strengths for Composites Bonded to Concrete, L. Bizindavyi and K. W. Neale, CC Nov. 99, p153-160.

Load and resistance factor design

Beam-Column Design Equations for Wide-Flange Pul-truded Structural Shapes, Ever J. Barbero and Liliana DeVivo, CC Nov. 99, p185-191.

The Clear Creek Hybrid Composite I-Girder Pedestrian Bridge, P. J. Szak, B. N. Robson, I. E. Harik and B. Brailsford, CC May 99, p101-104.

Concrete Cover Failure in FRP Reinforced Beams under Thermal Loading, Maria Antonietta Aiello, CC Feb. 99, p46-52

Manufacturing

Experimental Results on Centrifugated GFRP Poles for Electric Lifelines, Carlo Castiglioni and Maura Imbimbo, CC Aug. 99, p125-133.

Behavior of Retrofitted URM Walls under Simulated Earthquake Loading, M. R. Ehsani, H. Saadatmanesh and J. I. Velazquez-Dimas, CC Aug. 99, p134-142.

Mechanical properties

Experimental Results on Centrifugated GFRP Poles for Electric Lifelines, Carlo Castiglioni and Maura Imbimbo, CC Aug. 99, p125-133.

Performance of Hollow Glass Fiber-Reinforced Polymer Rebars, Damian May 99, p87-91. in I. Kachlakev and James R. Lundy, CC

FRP-Confined Concrete Model, Marijn R. Spoelstra and Giorgio Monti, CC Aug. 99, p143-150.

Moisture content

Durability of AR Glass Fiber Reinforced Plastic Bars, Fares E. Tannous and Hamid Saadatmanesh, CC Feb. 99, p12-19

Quality Assurance of GFRP Pipes for Seawater Cooling of Power Plants, O. Ishai and J. M. Lifshitz, CC Feb. 99, p27-37.

Experimental Results on Centrifugated GFRP Poles for Electric Lifelines, Carlo Castiglioni and Maura Imbimbo, CC Aug. 99, p125-133.

Postbuckling behavior

Failure of Web-Flange Junction in Postbuckled Pultruded I-beams, Lawrence C. Bank and Jianshen Yin, CC

Quality Assurance of GFRP Pipes for Seawater Cooling of Power Plants, O. Ishai and J. M. Lifshitz, CC Feb. 99, p27-37.

Pretensioning

Deflection Control of Concrete Beams Pretensioned by CFRP Reinforcements, Amr A. Abdelrahman and Sami H. Rizkalla, CC May 99, p55-62.

Pultrusion

Beam-Column Design Equations for Wide-Flange Pul-truded Structural Shapes, Ever J. Barbero and Liliana DeVivo, CC Nov. 99, p185-191.

Experimental Comparisons of Connections for GFRP Pultruded Frames, S. J. Smith, I. D. Parsons and K. D. Hjelmstad, CC Feb. 99, p20-26.

Further Tests of Beam-to-Column Connections for Pultruded Frames: Flange-Cleated, J. T. Mottram and Y. Zheng, CC Aug. 99, p108-116.

Further Tests on Beam-to-Column Connections for Pultruded Frames: Web-Cleated, J. T. Mottram and Y. Zheng, CC Feb. 99, p3-11.

Quality assurance

Quality Assurance of GFRP Pipes for Seawater Cooling of Power Plants, O. Ishai and J. M. Lifshitz, CC Feb. 99, p27-37.

Railroad ties

Feasibility Study of Prototype GFRP-Reinforced Wood Railroad Crosstie, Julio F. Davalos, Michael G. Zipfel and Pizhong Qiao, CC May 99, p92-99.

Feasibility Study of Prototype GFRP-Reinforced Wood Railroad Crosstie, Julio F. Davalos, Michael G. Zipfel and Pizhong Qiao, CC May 99, p92-99.

Resistance factors

Durability of AR Glass Fiber Reinforced Plastic Bars, Fares E. Tannous and Hamid Saadatmanesh, CC Feb. 99, p12-19.

Retrofitting

Behavior of Retrofitted URM Walls under Simulated Earthquake Loading, M. R. Ehsani, H. Saadatmanesh and J. I. Velazquez-Dimas, CC Aug. 99, p134-142.

Reviews

Editor's Note, Lawrence C. Bank, CC Feb. 99, p1-2.

Sea water corrosion

Quality Assurance of GFRP Pipes for Seawater Cooling of Power Plants, O. Ishai and J. M. Lifshitz, CC Feb. 99, p27-37.

Seismic response

Behavior of Retrofitted URM Walls under Simulated Earthquake Loading, M. R. Ehsani, H. Saadatmanesh and J. I. Velazquez-Dimas, CC Aug. 99, p134-142.

Semi-rigid connections

Further Tests of Beam-to-Column Connections for Pul-truded Frames: Flange-Cleated, J. T. Mottram and Y. Zheng, CC Aug. 99, p108-116.

Beam-Column Design Equations for Wide-Flange Pul-truded Structural Shapes, Ever J. Barbero and Liliana DeVivo, CC Nov. 99, p185-191.

Slip Modulus of FRP Sheets Bonded to Concrete, Y. J. Lee, T. E. Boothby, C. E. Bakis and A. Nanni, CC Nov. 99, p161-167.

Slip Modulus of FRP Sheets Bonded to Concrete, Y. J. Lee, T. E. Boothby, C. E. Bakis and A. Nanni, CC Nov. 99, p161-167.

Splitting

Concrete Cover Failure in FRP Reinforced Beams under Thermal Loading, Maria Antonietta Aiello, CC Feb.

Slip Modulus of FRP Sheets Bonded to Concrete, Y. J. Lee, T. E. Boothby, C. E. Bakis and A. Nanni, CC Nov. 99, p161-167.

Stress-strain curves

Bridge Pier Retrofit Using Fiber-Reinforced Plastic Composites, Ioan Gergely, Chris P. Pantelides, Ralph J. Nuismer and Lawrence D. Reaveley, CC Nov. 98, p165-174.

Structural stability

Beam-Column Design Equations for Wide-Flange Pul-truded Structural Shapes, Ever J. Barbero and Liliana DeVivo, CC Nov. 99, p185-191.

Structure reinforcement

Effect of High Temperature on Bond Strength of FRP Rebars, Amnon Katz, Neta Berman and Lawrence C. Bank, CC May 99, p73-81.

Performance of Hollow Glass Fiber-Reinforced Polymer Rebars, Damian I. Kachlakev and James R. Lundy, CC May 99, p87-91.

Technology

Experimental Results on Centrifugated GFRP Poles for Electric Lifelines, Carlo Castiglioni and Maura Imbim-bo, CC Aug. 99, p125-133.

Temperature effects

Effect of High Temperature on Bond Strength of FRP Rebars, Amnon Katz, Neta Berman and Lawrence C. Bank, CC May 99, p73-81.

Tensile strength

Tensile Durability of Cement-Based FRP Composite Wrapped Specimens, Houssam A. Toutanji and Tahar El-Korchi, CC Feb. 99, p38-45.

Further Tests on Beam-to-Column Connections for Pul-truded Frames: Web-Cleated, J. T. Mottram and Y. Zheng, CC Feb. 99, p3-11.

Thermal factors

Concrete Cover Failure in FRP Reinforced Beams under Thermal Loading, Maria Antonietta Aiello, CC Feb.

Thermal Compatibility of Concrete and Composite Rein-forcements, T. Russell Gentry and Mohamed Husain, CC May 99, p82-86.

Thermoelasticity

Thermal Compatibility of Concrete and Composite Reinforcements. T. Russell Gentry and Mohamed Husain, CC May 99, p82-86.

Walls

Behavior of Retrofitted URM Walls under Simulated Earthquake Loading, M. R. Ehsani, H. Saadatmanesh and J. I. Velazquez-Dimas, CC Aug, 99, p134-142.

Bond Length of CFRP Composites Attached to Precast Concrete Walls, Vladimir A. Volnyy and Chris P. Pan-telides, CC Nov. 99, p168-176.

Failure of Web-Flange Junction in Postbuckled Pultruded I-beams, Lawrence C. Bank and Jianshen Yin, CC Nov. 99, p177-184.

Wood

Feasibility Study of Prototype GFRP-Reinforced Wood Railroad Crosstie, Julio F. Davalos, Michael G. Zipfel and Pizhong Qiao, CC May 99, p92-99.

AUTHOR INDEX

Abdelrahman, Amr A.

Deflection Control of Concrete Beams Pretensioned by CFRP Reinforcements, with Sami H. Rizkalla, CC May 99, p55-62

Aiello, Maria Antonietta

Concrete Cover Failure in FRP Reinforced Beams under Thermal Loading, CC Feb. 99, p46-52

Bakis, C. E.

see Lee, Y. J., CC Nov. 99, p161-167

Bank, Lawrence C.

Banis, Lawrence C. Editor's Note, CC Feb. 99, p1-2 Failure of Web-Flange Junction in Postbuckled Pultruded I-beams, with Jianshen Yin, CC Nov. 99, p177-184 see Katz, Amnon, CC May 99, p73-81

Barbero, Ever J.

Beam-Column Design Equations for Wide-Flange Pul-truded Structural Shapes, with Liliana DeVivo, CC Nov. 99, p185-191

Barnes, Richard Andrew Fatigue Performance of Concrete Beams Strengthened with CFRP Plates, with Geoffrey Charles Mays, CC May 99, p63-72

Berman, Neta

see Katz, Amnon, CC May 99, p73-81

Bizindavyi, L.

Transfer Lengths and Bond Strengths for Composites Bonded to Concrete, with K. W. Neale, CC Nov. 99, p153-160

Boothby, T. E. see Lee, Y. J., CC Nov. 99, p161-167

Brailsford, B. see Szak, P. J., CC May 99, p101-104

Castiglioni, Carlo

Experimental Results on Centrifugated GFRP Poles for Electric Lifelines, with Maura Imbimbo, CC Aug. 99, p125-133

Davalos, Julio F.

Feasibility Study of Prototype GFRP-Reinforced Wood Railroad Crosstie, with Michael G. Zipfel and Pizhong Qiao, CC May 99, p92-99

see Qiao, Pizhong, CC Aug. 99, p151-152

DeVivo, Liliana

see Barbero, Ever J., CC Nov. 99, p185-191

Ehsani, M. R.

Behavior of Retrofitted URM Walls under Simulated Earthquake Loading, with H. Saadatmanesh and J. I. Velazquez-Dimas, CC Aug. 99, p134-142

El-Korchi, Tahar

see Toutanji, Houssam A., CC Feb. 99, p38-45

Erki, M. A., P.E. Impact Loading of Concrete Beams Externally Strength-ened with CFRP Laminates, with U. Meier, P.E., CC Aug. 99, p117-124

Gentry, T. Russell

Thermal Compatibility of Concrete and Composite Reinforcements, with Mohamed Husain, CC May 99, p82-

Gergely, Ioan

Gergery, Joan Bridge Pier Retrofit Using Fiber-Reinforced Plastic Com-posites, with Chris P. Pantelides, Ralph J. Nuismer and Lawrence D. Reaveley, CC Nov. 98, p165-174 CC May 99, p105

Harik, I. E. see Szak, P. J., CC May 99, p101-104

Hjelmstad, K. D. see Smith, S. J., CC Feb. 99, p20-26

Husain, Mohamed

see Gentry, T. Russell, CC May 99, p82-86

Imbimbo, Maura

see Castiglioni, Carlo, CC Aug. 99, p125-133

Ishai, O.

Quality Assurance of GFRP Pipes for Seawater Cooling of Power Plants, with J. M. Lifshitz. CC Feb. 99, p27-37

Kachlakev, Damian I.

Performance of Hollow Glass Fiber-Reinforced Polymer Rebars, with James R. Lundy, CC May 99, p87-91

Effect of High Temperature on Bond Strength of FRP Rebars, with Neta Berman and Lawrence C. Bank, CC May 99, p73-81

Lee, Y. J.

Slip Modulus of FRP Sheets Bonded to Concrete, with T. E. Boothby, C. E. Bakis and A. Nanni, CC Nov. 99, p161-167

Lifshitz, J. M.

see Ishai, O., CC Feb. 99, p27-37

Lundy, James R.

see Kachlakev, Damian I., CC May 99, p87-91

Mays, Geoffrey Charles see Barnes, Richard Andrew, CC May 99, p63-72 Meier, U., P.E.

see Erki, M. A., P.E., CC Aug. 99, p117-124

Monti, Giorgio

see Spoelstra, Marijn R., CC Aug. 99, p143-150

Mottram, J. T.

Further Tests of Beam-to-Column Connections for Pul-truded Frames: Flange-Cleated, with Y. Zheng, CC Aug. 99, p108-116

Further Tests on Beam-to-Column Connections for Pul-truded Frames: Web-Cleated, with Y. Zheng, CC Feb.

Munley, Eric

see Scalzi, John, CC Aug. 99, p107

Nanni, A. see Lee, Y. J., CC Nov. 99, p161-167

Neale, K. W.

see Bizindavyi, L., CC Nov. 99, p153-160

Nuismer, Ralph J.

see Gergely, Ioan, CC Nov. 98, p165-174

Pantelides, Chris P.

see Gergely, Ioan, CC Nov. 98, p165-174 see Volnyy, Vladimir A., CC Nov. 99, p168-176

Parsons, I. D.

see Smith, S. J., CC Feb. 99, p20-26

Podolny, Walter

see Scalzi, John, CC Aug. 99, p107

Introduction to Composite Materials Design by Ever J. Barbero, with Julio F. Davalos, CC Aug. 99, p151-152 see Davalos, Julio F., CC May 99, p92-99

Reaveley, Lawrence D.

see Gergely, Ioan, CC Nov. 98, p165-174

Rizkalla, Sami H.

see Abdelrahman. Amr A., CC May 99, p55-62

Robson, B. N.

see Szak, P. J., CC May 99, p101-104

Saadatmanesh, H. see Ehsani, M. R., CC Aug. 99, p134-142

Saadatmanesh, Hamid see Tannous, Fares E., CC Feb. 99, p12-19

Scalzi, John Importance of Documenting FRP Composite Data, with Walter Podolny, Eric Munley and Benjamin Tang, CC

Aug. 99, p107

Smith, S. J. Experimental Comparisons of Connections for GFRP Pultruded Frames, with I. D. Parsons and K. D. Hjelmstad, CC Feb. 99, p20-26

Spoelstra, Marijn R. FRP-Confined Concrete Model, with Giorgio Monti, CC Aug. 99, p143-150

Szak, P. J.

Szak, F. J.
The Clear Creek Hybrid Composite I-Girder Pedestrian Bridge, with B. N. Robson, I. E. Harik and B. Brails-ford, CC May 99, p101-104

Tang, Benjamin

see Scalzi, John, CC Aug. 99, p107

Durability of AR Glass Fiber Reinforced Plastic Bars, with Hamid Saadatmanesh, CC Feb. 99, p12-19

Toutanji, Houssam A.
Tensile Durability of Cement-Based FRP Composite
Wrapped Specimens, with Tahar El-Korchi, CC Feb.
99, p.38-45

Velazquez-Dimas, J. I. see Ehsani, M. R., CC Aug. 99, p134-142

Volnyy, Vladimir A.

Bond Length of CFRP Composites Attached to Precast
Concrete Walls, with Chris P. Pantelides, CC Nov. 99,

Yin, Jianshen

see Bank, Lawrence C., CC Nov. 99, p177-184

Zheng, Y.

see Mottram, J. T., CC Feb. 99, p3-11 see Mottram, J. T., CC Aug. 99, p108-116

Zipfel, Michael G. see Davalos, Julio F., CC May 99, p92-99



